

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2005/003979

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl<sup>7</sup> H01S5/024, H01L23/473

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> H01S5/024, H01L23/473

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 57-141986 A (Fujitsu Ltd.), 02 September, 1982 (02.09.82), Full text; all drawings (Family: none)	1-6
A	JP 9-194204 A (Matsushita Electric Industrial Co., Ltd.), 29 July, 1997 (29.07.97), Par. Nos. [0032] to [0035]; Fig. 11 (Family: none)	1-6
A	JP 2003-8273 A (Fanuc Ltd.), 10 January, 2003 (10.01.03), Par. Nos. [0002] to [0027], [0122] to [0143]; Figs. 1 to 7 & US 2002/0195238 A1 & EP 1271723 A2	1-6

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
31 May, 2005 (31.05.05)

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 10-209531 A (Fujitsu Ltd.), 07 August, 1998 (07.08.98), Par. Nos. [0001] to [0007], [0027] to [0039]; Figs. 1 to 2, 37 to 39 & US 6097744 A & DE 19750879 A	1-6
A	WO 00/11717 A (Hamamatsu Photonics Kabushiki Kaisha), 02 March, 2000 (02.03.00), Full text; all drawings & EP 1113496 A & US 2001/0004312 A1	1-6